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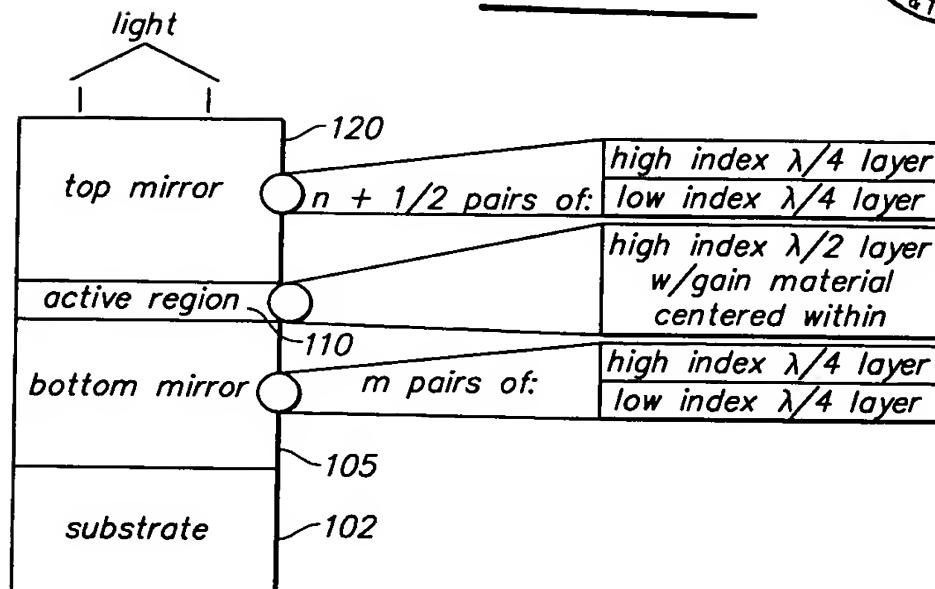


FIG. 1 (PRIOR ART)

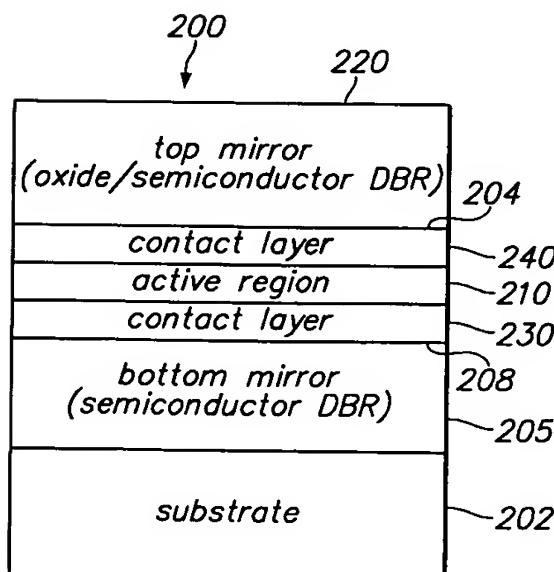


FIG. 2A

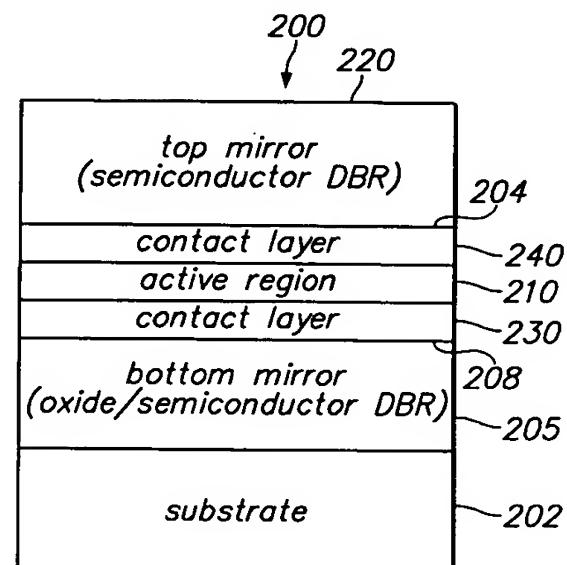
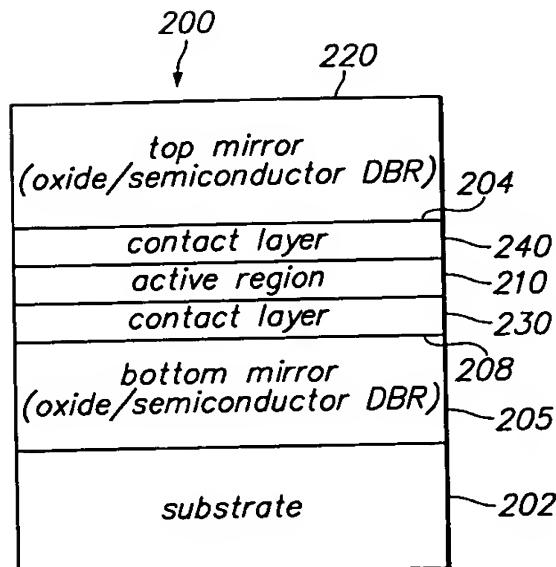


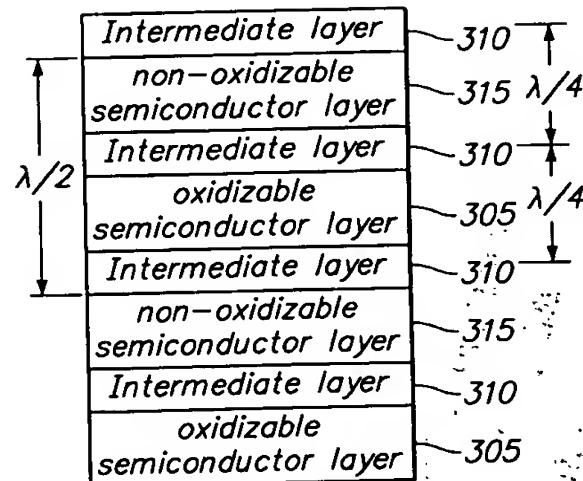
FIG. 2B

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**FIG. 2C**



**FIG. 3**

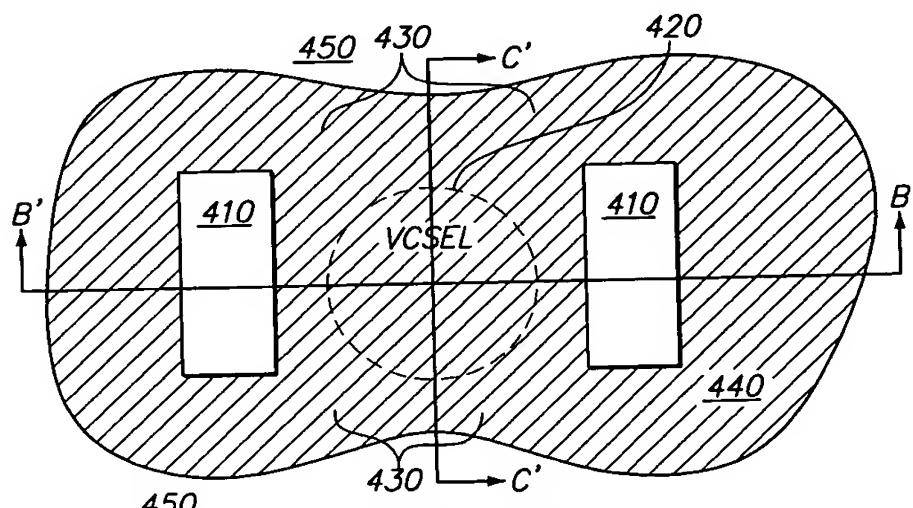


FIG. 4A

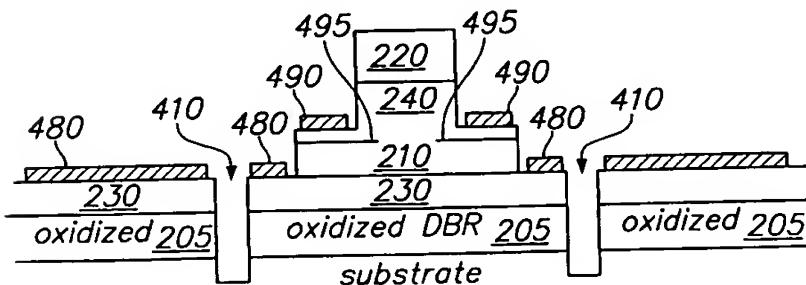


FIG. 4B

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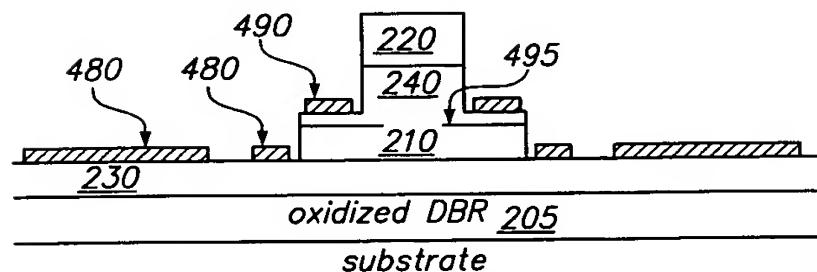


FIG. 4C

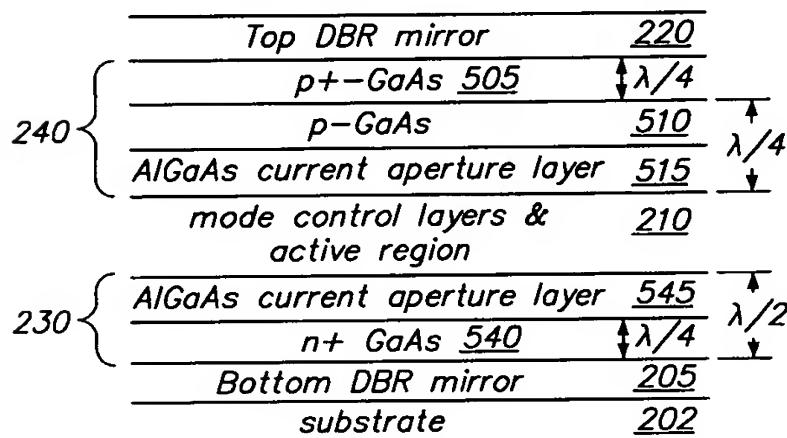


FIG. 5A

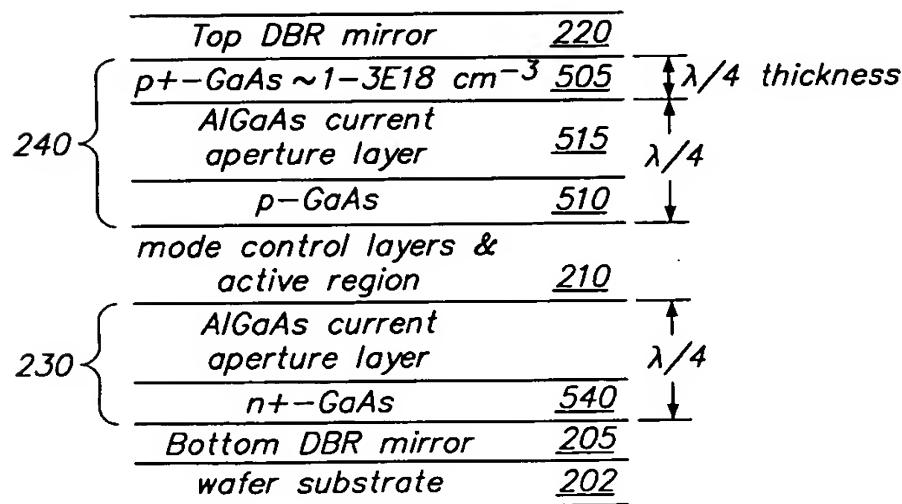


FIG. 5B



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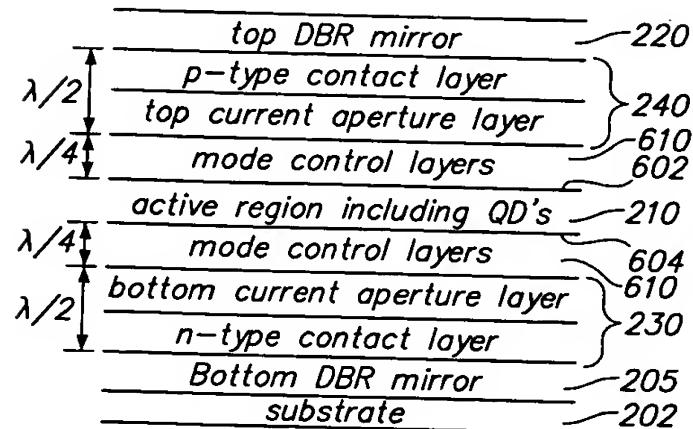


FIG. 6A

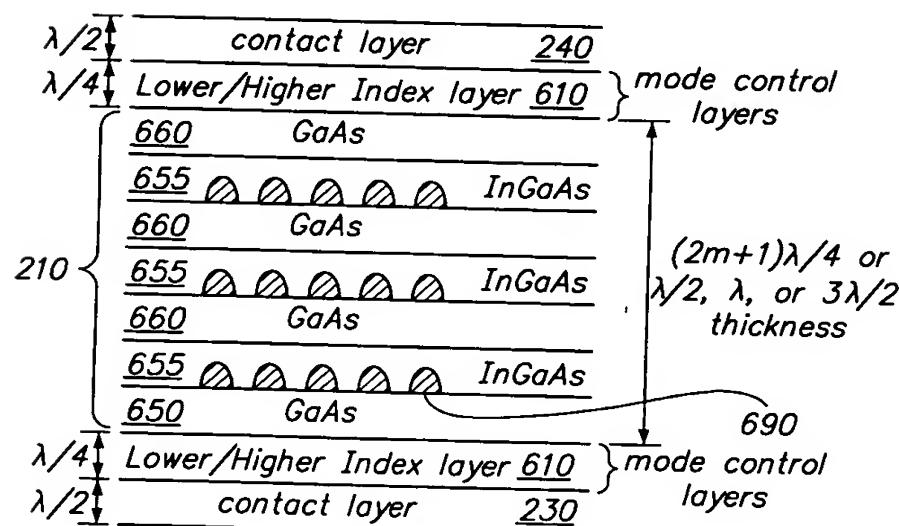


FIG. 6B

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220	GaAs	92nm, 5x	
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	10nm, 5x	
	Al <sub>0.92</sub> As	213nm, 5x	
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	10nm, 5x	
610	GaAs, p318	92nm	p-contact
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As,	p1017 107nm	Mode Control
240	GaAs, p117	71nm	p-contact
	Al <sub>0.98</sub> Ga <sub>0.02</sub> As,	p1017 50nm	Current aperture
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	12nm	grade for current aperture
	GaAs	20nm	Active
	GaAs	10nm, 3x	600°C Active
	GaAs	0.8nm, 3x	Active
210	In <sub>0.15</sub> Ga <sub>0.85</sub> As	~8nm, 3x	Active
	In <sub>0.15</sub> As	2.4ML, 3x	Active
	In <sub>0.15</sub> Ga <sub>0.85</sub> As	1nm, 3x	510°C Active
	GaAs	159nm	Active
610	Al <sub>0.92</sub> Ga <sub>0.08</sub> As,	n1017 107nm	Mode Control
230	GaAs, n218	92nm	n-contact
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	10nm, 8x	
	Al <sub>0.92</sub> As	213nm, 8x	
205	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	10nm, 8x	
	GaAs	92nm, 8x	
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	10nm	
	Al <sub>0.92</sub> As	213nm	
	Al <sub>0.92</sub> Ga <sub>0.08</sub> As	10nm	
	GaAs	200nm600C	
	GaAs N+2" 1-side	Tox=620C, 10min	

FIG. 7

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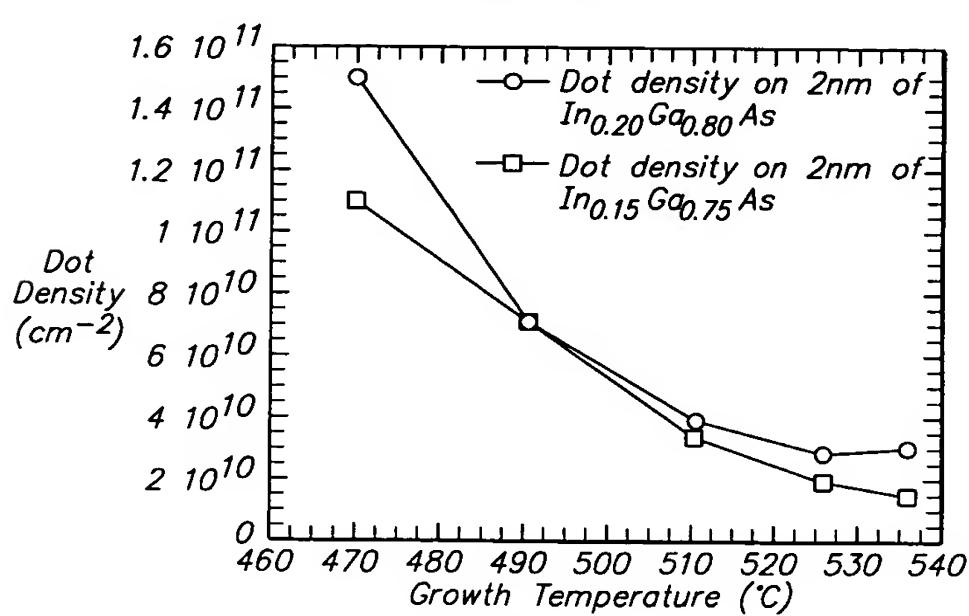
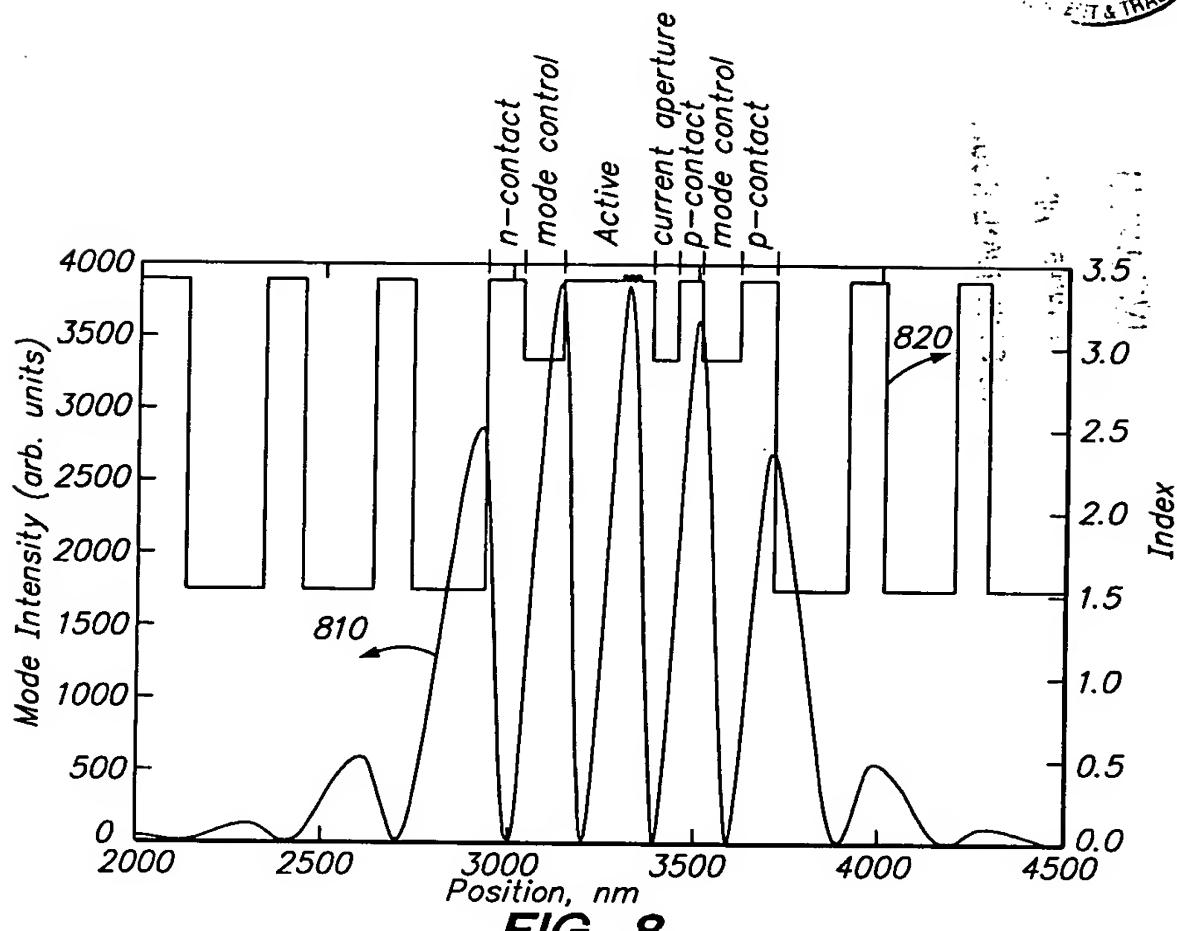
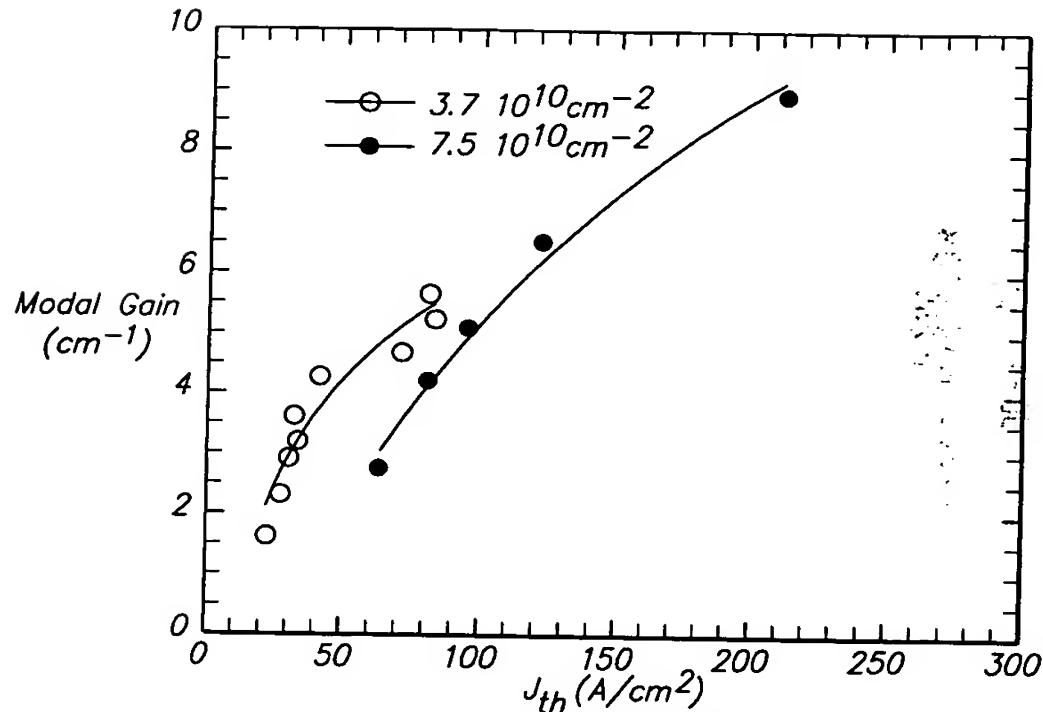
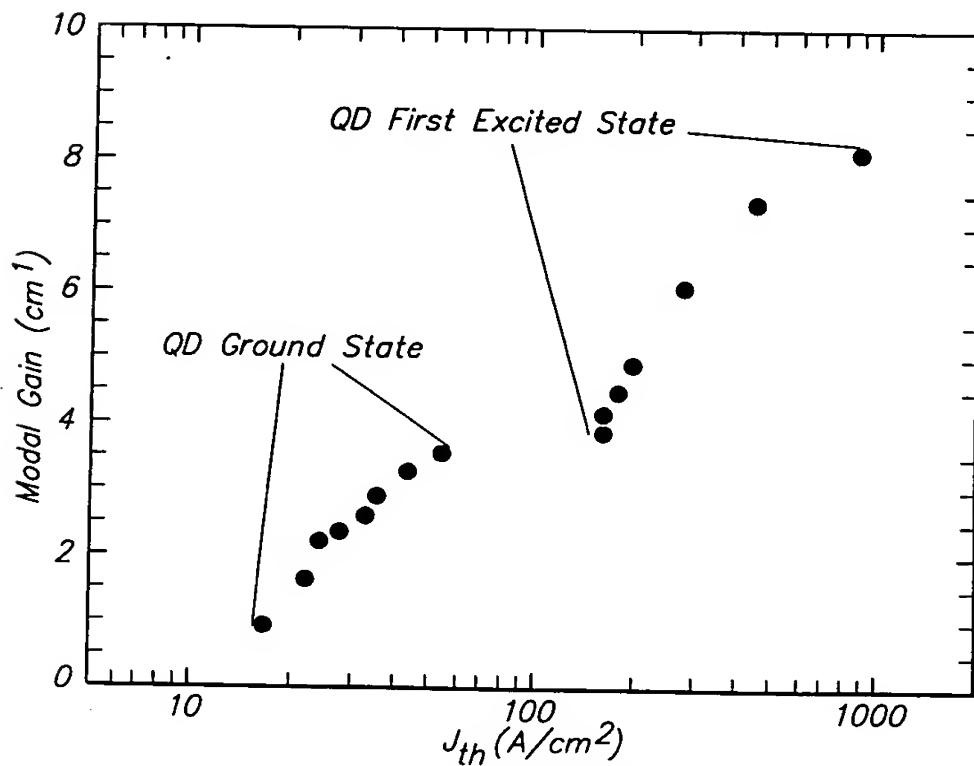


FIG. 9

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**FIG. 10**



**FIG. 11**

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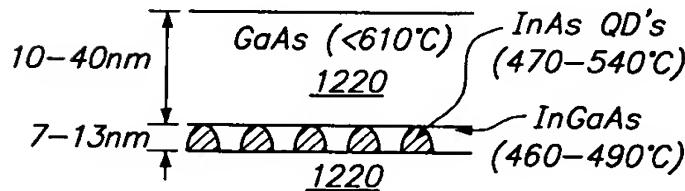


FIG. 12A

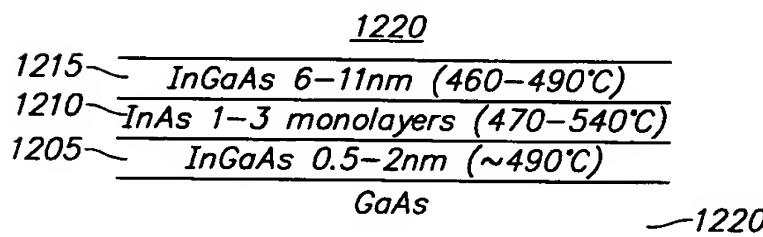


FIG. 12B

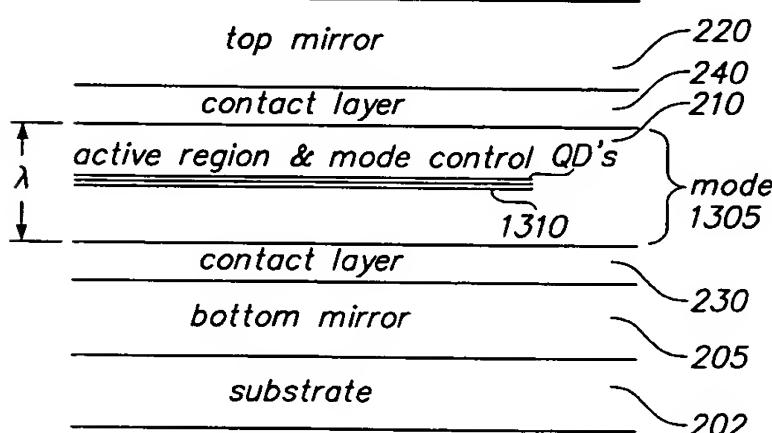
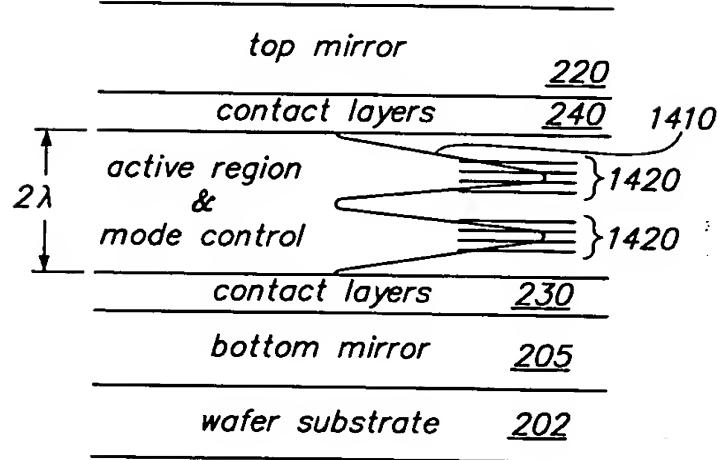


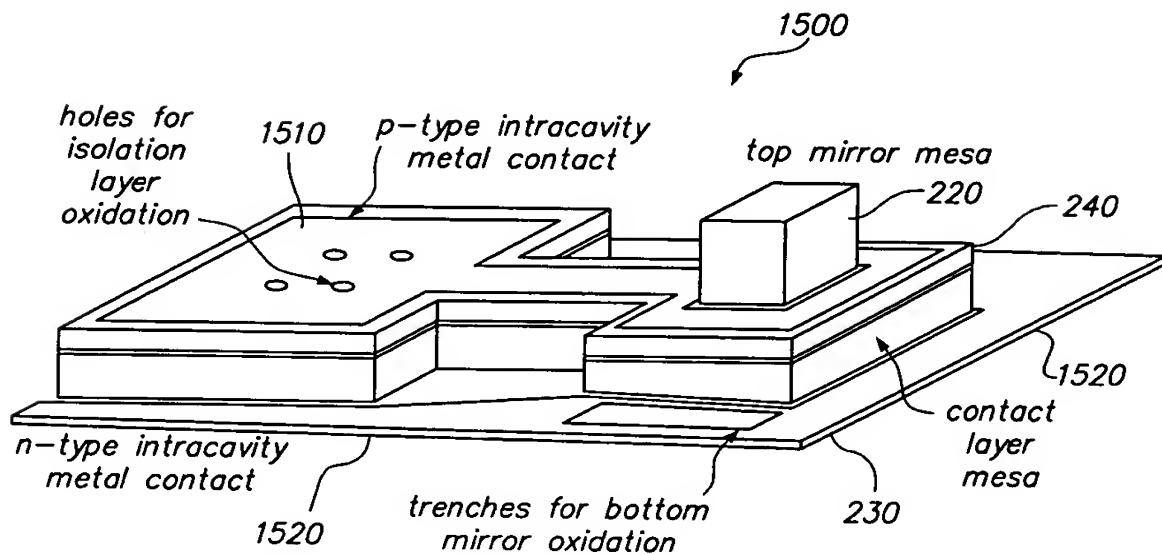
FIG. 13



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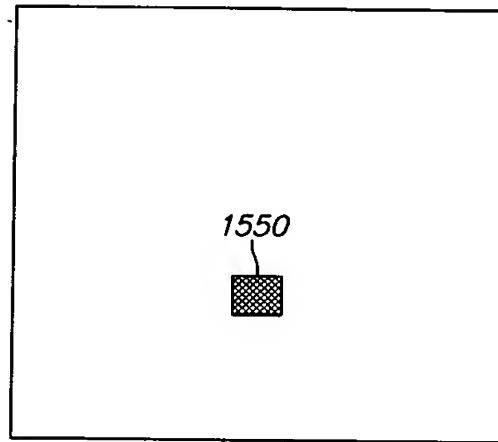


**FIG. 14**

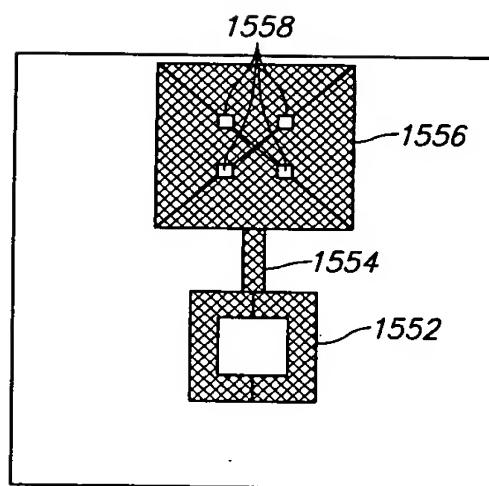


**FIG. 15A**

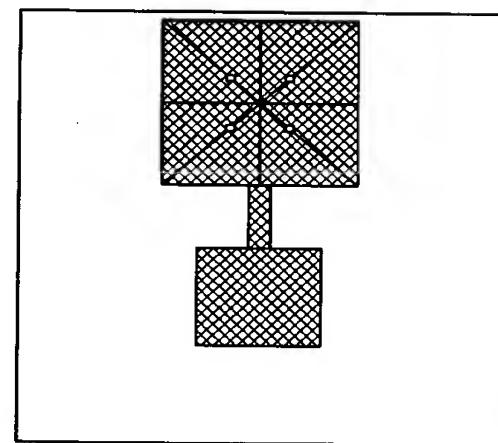
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**FIG. 15B**



**FIG. 15C**

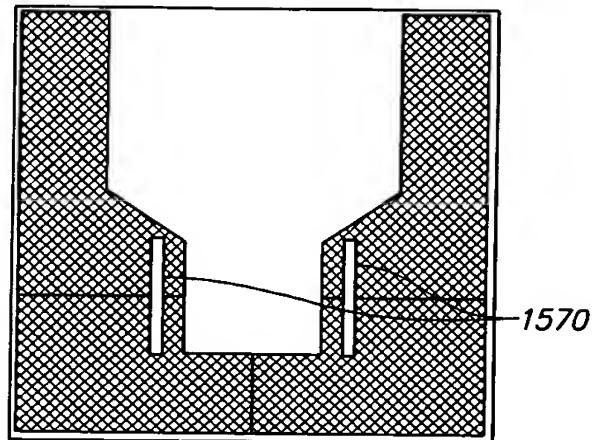


**FIG. 15D**

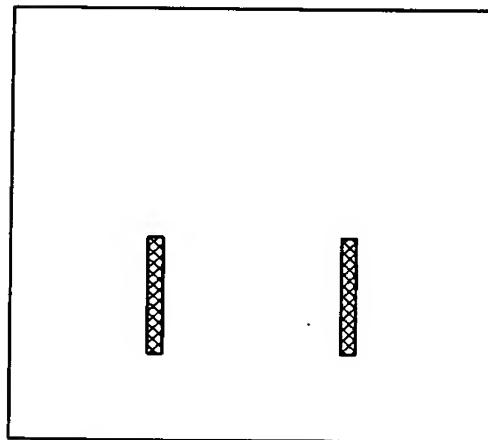
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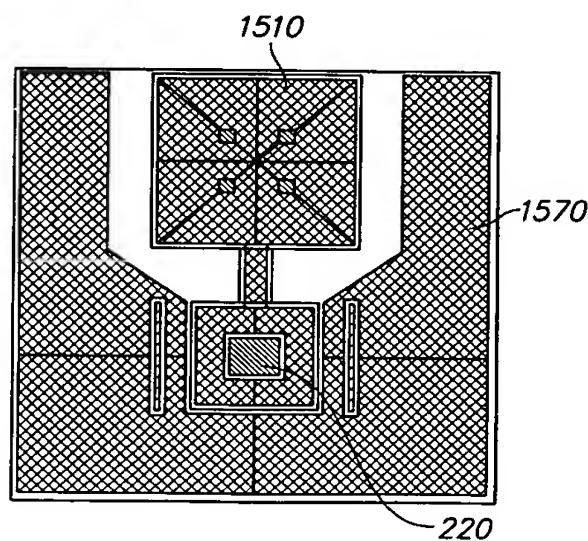
**FIG. 15E**



**FIG. 15F**



**FIG. 15G**



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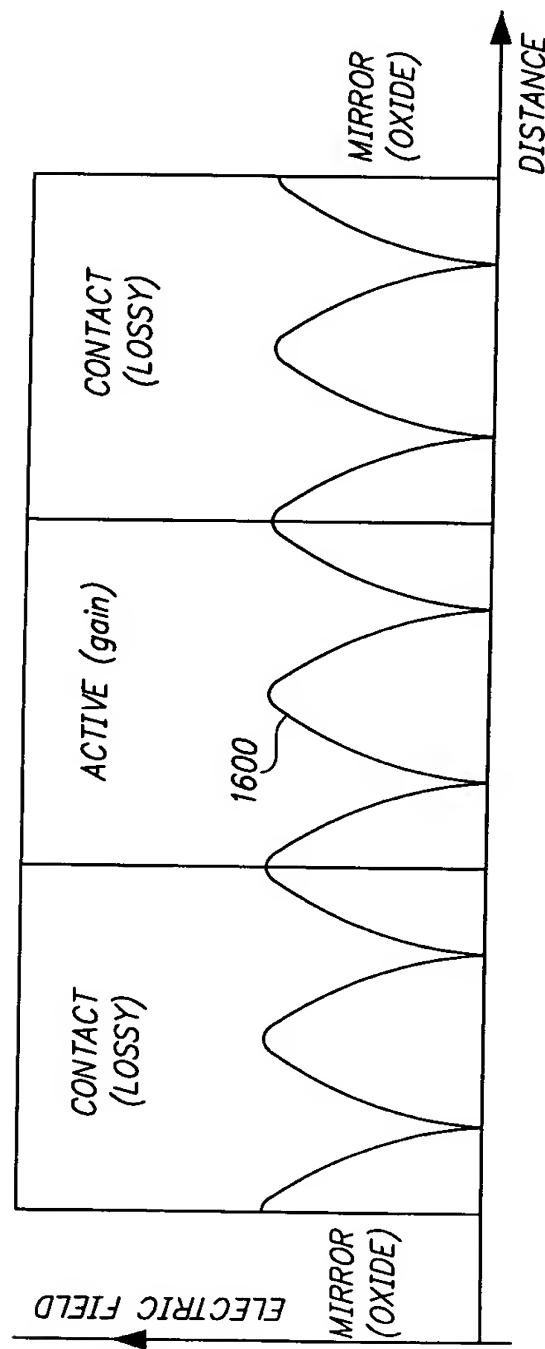


FIG. 16A

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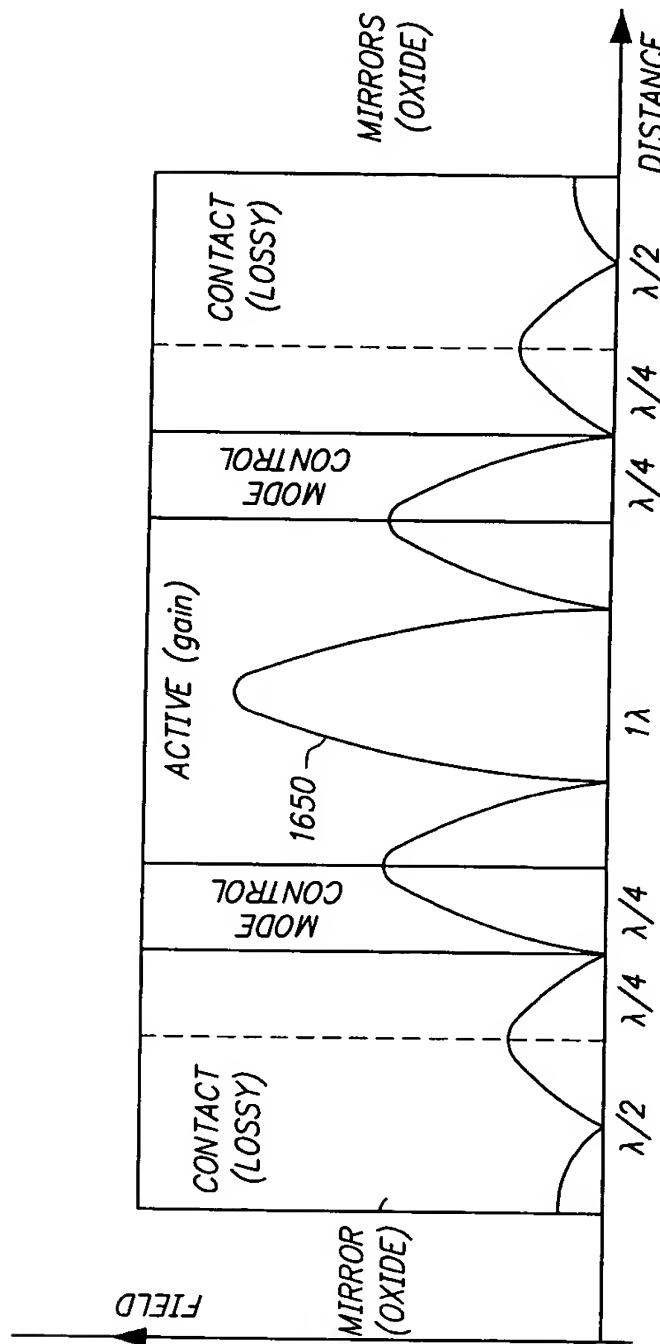


FIG. 16B